



**PDPM INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING, JABALPUR**

(An Institute of National Importance established by Ministry of Education, Government of India)

Dumna Airport Road, Jabalpur - 482005, India

Advertisement for JRF Position in CRG Scheme Funded by SERB-ANRF sponsored Project

Applications are invited from interested candidates for walk-in test/interview for the below mentioned position to work on a **SERB-ANRF funded research project, Sanction Order No.: CRG/2023/004717**, titled "**Development of Compact Thermo-Electric Generator integrated PEM Electrolyser for onboard Hydrogen Production for Co-firing in Compression Ignition Engine: A Hybrid Approach**".

Position & Number of Post: Junior Research Fellow (JRF) & One Post.

Problem Statement: The project aims to develop a compact thermo-electric generator integrated with a PEM electrolyser to enable onboard hydrogen production. This hydrogen will be used for co-firing in compression ignition engines, enhancing fuel efficiency and reducing emissions. The hybrid system seeks to address the challenges of sustainable energy production and utilization in automotive applications, contributing to the National Green Hydrogen Mission and supporting India's goals of energy self-reliance and environmental sustainability.

Project Area Hydrogen Energy, Fuel cell, IC Engine, Bio Fuels

Duration: Initially for one-year extendable for another year based on satisfactory performance and availability of funds.

Eligibility: B.E./B.Tech and M.E./M.Tech or equivalent in Mechanical or any allied branch relevant to the project, with 1st class. Age limit: 35, Age relaxation for (OBC, SC, SC, Women) Preference will be given to GATE/NET qualified candidate.

Salary: Rs. 37,000/- per month + 18% HRA = Rs. 43,660/-

Desirables: Candidates having hands-on experience of fabrication techniques, good knowledge of thermodynamic modelling, simulation and modelling tools such as ANSYS, COMSOL, MATLAB, etc. will be given preference.

Date of Test/ Interview: Tentatively, **05-11-2024 at 11.00 AM**. The Interview will be conducted in Hybrid mode. The shortlisted candidates would be notified through email.

Note: 1. For any queries regarding the position, please feel free to contact (**Principal Investigator**)
2. No TA/DA will be given to the candidates for appearing the interview.

Application Procedure: Candidates can submit their application online by scanning QR code or by filling a Google form at <https://forms.gle/KAGytMNPd688e17Y8>

Important Dates: **Submission Deadline for Application Form: 28-10-2024**

The selected candidates will be eligible to register for the Ph.D. degree at PDPM IITDM Jabalpur, Madhya Pradesh as per the eligibility criteria against subsequent advertisement (possibly in upcoming advertisement).

Principal Investigator:
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